

CLAIM

1. A monoclonal antibody which binds to a glycoprotein antigen that has a molecular weight of 200 kD or more (SDS-PAGE), exists in human lung adenocarcinoma cells and is secreted by human lung adenocarcinoma.

2. The monoclonal antibody according to claim 1 wherein it reacts with MAA lectin and PNA lectin but does not react with GNA lectin, SNA lectin and DSA lectin.

3. The monoclonal antibody according to claim 1 or 2 wherein isotype of the aforementioned antibody is IgM.

4. The monoclonal antibody according to any one of claims 1 to 3 wherein it is produced by a hybridoma cell strain TRD-L1, TRD-L2 or TRD-L3 obtained by the fusion between mouse myeloma cells and spleen cells of a mouse immunized with a human lung adenocarcinoma cell secretion component.

5. The monoclonal antibody according to any one of claims 1 to 4 wherein the aforementioned antibody is an Fab, F(ab)₂ or Fv fragment.

6. A glycoprotein antigen which is a glycoprotein having a molecular weight of 200 kD or more (SDS-PAGE), exists in cells of human lung adenocarcinoma and is secreted by lung adenocarcinoma.

7. The glycoprotein antigen according to claim 6 wherein it reacts with MAA lectin and PNA lectin but does not react with GNA lectin, SNA lectin and DSA lectin.

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8. An immunoassay method for cancer diagnosis use which comprises using the monoclonal antibody of any one of claims 1 to 5.

9. The immunoassay method for cancer diagnosis use according to claim 8 wherein the glycoprotein antigen of claim 6 or 7 is measured using the monoclonal antibody of any one of claims 1 to 5.

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